

Series

OFD

Type: solvent

Printing process: screen printing

Ink type: one-component

Finish: glossy

Materials: Aluminium, Brass, Ceramic, Chrome metal, Copper, Glass, Iron, Lacquered surfaces, Metal (in general), Stainless steel, treated Polyacetal (POM) (hard-plast)

Main features:

- . Ink based on synthetic resins
- . The OFD Series has to be oven-cured
- . Suitable for outdoor applications
- . Excellent opacity
- . Good elasticity
- . Formaldehyde-free ink

Because of the versatility of use of this ink, and the possible differences in the quality of the used supports, pre-tests are suggested

Certifications: CLP/GHS (EC 1272/2008), Conflict minerals free, EN 71-3, Reach (EC 1907/2006), RoHS

The EN 71:3 Directive is valid for standard shades of one component inks, two component inks, Ink system and Process colors, HD shades and for all not standard shades which do not contain metallic shades, metallic pastes or fluorescent pigments or inks.

In order to clarify any doubt on not standard shades, it is always recommended to provide us a specific request.

Eco-sustainability (free of): Alogens, Animal origin ingredients, Azo dyes, Cyclohexanone, Formaldehyde, G-B Ester, Latex, Melamine, Persistent organic pollutants, Phthalates (listed in RoHS directive)

Note: shades in the fluorescent color chart contain formaldehyde.

Note: all our inks are formulated with non carcinogenic aromatic naphthas as the benzene content is below than 0.1% by weight.

IPA contamination are also possible but always below the limit of 1000 ppm.

Outdoor resistance (years): 6

Suitable for outdoor application.

The used pigments have a solidity from 7 to 8 DIN.

In case of mixing with the transparent bases 70 TR or TP, or with the white 160 or 60 BN, the light fastness and atmospheric agents decrease.

If you want to increase the outdoor solidity, it's recommended to add 5-7% of UV adsorber to the ink.

Drying process: oven

Initially the OFD Series dry physically, i.e. by evaporation of solvents, however, there will be no adhesion to the substrate and no scratch resistance.

Therefore, depending on production conditions, oven curing either directly after printing or within 12 hours should be carried out.

Temperatures and curing times are as follows:

140°C	20-30 minutes
160°C	15-20 minutes
180°	10-15 minutes

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Do not exceed the recommended temperatures and times.

Mechanical and chemical solidity:

Alcohol	
Aromatic organic solvents	
Detergents	commonly used in dishwashers
Flexibility (Elasticity or Bending)	
Gasoline	
Greases	
Oils	
Surface hardness (Abrasion)	
Washings	excellent (about 300 cycles in the dishwasher in standard conditions of use, 45-60°C with low-alkaline detergents)

Tests must be carried out only after complete polymerization inside the oven:

- Polymerize inside the oven
- Cool down
- Wait 1-2 hours
- Perform the tests

Colours range: EXTRA - M, INK SYSTEM, QUADRICROMIA

110	111	115	120	121	122	124	130	132	133
136	140	141	151	160	165	170	10 GL	11 GS	12 AR
21 RS	22 RC	25 MG	27 VT	32 BL	40 VR	60 BN	65 NR	70 TR	1080
1081	1082	1083	TP						

Please refer to the Glossy, Metallic and Ink System ink color charts.

The Ink System are 12 colour shades for mixing of RAL, PMS and HKS colours

The metallic shades are available only by mixing the relative pastes with the Transparent Base OFD 70 TR.

Gold paste 75 10-20%

Gold paste 76 10-20%

Gold paste 77 10-20%

Bronze paste 78 10-20%

Silver paste 79-050 10-15%

The metallic pastes composed with the relative transparent base

OFD 70 TR, due to their particular composition, can oxidize.

The pot-life of the compounded METALLIC PASTES is about 8 working hours.

In the Ink System color chart are present the shades:

1080 yellow, 1081 magenta, 1082 blue, 1083 black, TP paste (CMYK), necessary for making four-color prints.

Auxiliaries and additives:

OFD-DM medium thinner	15%	
LH-DL slow thinner	15%	
XF-DR fast thinner	15%	

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Retarder paste	10%	max
M 3000 levelling agent	0,5%	
Universal antifoam agent	0,2%	
Antisilicone/s	0,2%	
UV Adsorber	8%	
NPT matting powder	2%	6% max

Ink removal:

DACS solvent

Lavaggio telai solvent

Aprimaglia Spray

STORAGE:

Please keep the cans in a dark place, at temperature of 15-25°C.

If the recommended temperature is higher than the suggested one or the cans are not completely closed, the shelf life and the qualities are drastically reduced.

CLASSIFICATION:

Before using this ink, consult the relevant safety data sheets available.

The safety data sheets provided comply with the REACH regulation (EC 1907/2006).

The hazard classification and related labelling are compliant with the CLP / GHS regulation (EC 1272/2008).

OTHER INFORMATION:

For more information on SERICOM ITALIA srl products, refer to the website www.sericom.it

NOTE:

Our technical consultancy activity, carried out orally, in writing or through tests or experiments, takes place on the basis of our best knowledge.

However, the same must be considered as information without any binding value, also as regards any third party industrial property rights.

This does not exempt the customer from performing his own checks on the products supplied by us in order to estimate the suitability or otherwise of the procedures and for the purposes intended.

The application, use and transformation of the products take place outside our control possibilities and therefore fall under the exclusive responsibility of the customer.